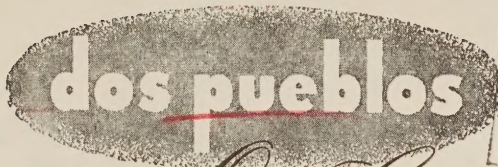


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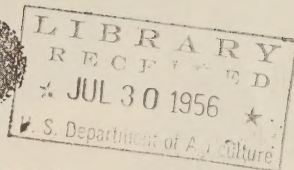
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GOLETA, CALIFORNIA

Not all of the seedlings listed in this catalogue are immediately available. Only those enumerated below are ready to ship at present, while others will become obtainable from time to time.

Available now in 5-inch pots and up.

Nos. 117 - 121 - 147 - 152 - 154 - 158 - 159

Available now in 3-inch pots and up

Nos. 104 - 119 - 140 - 150 - 151 - 157 - 160 - 161 - 163 - 209 - 234 -
237 - 258 - 317 - 332 - 366 - 377 - 386 - 387

Available in **June 1956** in 3-inch pots

Nos. *4029 - *4035 - *4037 - *4042 - *4046 - 4082 - *4087 - 4148 -
245 - 291 - 302 - 402

Available in **November 1956** in 3-inch pots

Nos. 4027 - 4031 - 4032 - *4036 - *4038 - 4039 - 4061 - 4062 - 4067 -
*4077 - *4100 - *4103 - *4107 - 4108 - 4118 - 4119 - 4149 - 297

Available in **April 1957** in 3-inch pots

Nos. 4020 - 4024 - *4030 - 4051 - 4057 - 4080 - *4101

Prices:

3-inch pots \$ 5.00 each
5-inch pots 7.50 each
6 & 8-inch pots 10.00 and up
*3-inch pots 7.50 each

California residents, add 3% sales tax.



DOS PUEBLOS
Orchid Company

5 - JUN 18
Cory-----1956



*Dedicated to those persons everywhere
of whom, as a classification of the human species,
Shakespeare wrote "There are no ancient gentlemen
but gardeners . . . they uphold Adam's profession"*

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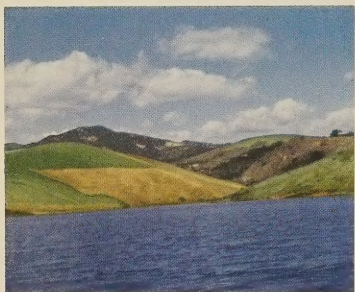
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RANCHO DOS PUEBLOS, comprising 4,500 acres, extends for three miles along the shores of the Pacific Ocean seventeen miles northwest of Santa Barbara, California. Since 1769, when the wide lands of which it is a part were first sighted by the white men in the persons of the soldiers of Captain Don Gaspar de Portola, these have been considered as constituting one of the most beautiful as well as fecund sections of coastal California. As the soldiers appraised this region, so did the Franciscan missionaries who received of it three and one-half square leagues, or ten and one-half square miles, from the Spanish Crown.

The Fathers called their doubly Royal grant "El Rancho de los Dos Pueblos," "The Ranch of the Two Towns," because, when Portola blazed his trail northward along the California main, there flourished on either side of what we know as Dos Pueblos Creek two considerable Indian settlements. When the inhabitants of these came under the bells, as conversion to Christianity was graphically called, their domains became cattle ranches administered by the Friars for the sustenance of the Mission Santa Barbara.

What properties the Franciscans held from the Spanish Crown they well and truly held in trust for the Indians but in 1845 the Missions as religious establishments, along with their lands and messuages, had been ruthlessly and in most cases wantonly, secularized. In that year, Juan B. Alvarado, last Governor of the Mexican Province of Alta California, in whose calculations the Indians played no part whatever, sold el Rancho de los Dos Pueblos to Nicholas A. Den, originally of Kilkenny, Ireland, but by suffrage, long a Mexican national. After Den's death in 1862 his great holding was subdivided and variously owned but the heart of the acreage which forms Rancho Dos Pueblos today has always remained intact and has known but three owners since the time of the Padres, one of them Den himself. This acreage was acquired by the Samuel B. Mosher interests from H. G. Wylie in 1942.

The present vast enterprise attracts thousands of visitors each year from every part of the United States. Consisting of a large farm planted to a diversity of crops; a citrus ranch, a cattle ranch stocked with registered Herefords **1**, a nationally known carnation nursery **2 & 3**, several acres of Birds of Paradise **4**, one of the country's greatest Cyrtipedium collections and the world's largest establishment for the breeding and growing of Cymbidium orchids **5 & 6**, all administered under one management, Rancho Dos Pueblos appeals irresistibly to that side of the American character which wants above all things to make things grow.



Ranch Reservoir

Samuel B. Mosher, Owner, Founder



The outstanding reputation as a fine parental plant which *Cymbidium Alexanderi* 'Westonbirt' has built up through the years has never been equaled among other orchid genera. Its distinction as a parent stems from the uniformly good progeny that it produces. *Alexanderi* 'Westonbirt', in comparison to most other *Cymbidiums*, displays many unique characters. It has shapely round flowers of heavy substance, the foliage is uncommonly heavy, and it is a slow grower. It exhibits many of these characters because it is a *tetraploid*, that is, it contains in its body cells, in contrast to the average *Cymbidium*, twice as many carriers of the units of heredity, the chromosomes. Most *Cymbidiums* contain only one-half the number of chromosomes found in *Alexanderi* 'Westonbirt' and are denoted as *diploids*.

When *Alexanderi* 'Westonbirt' is used as a parental plant in union with a diploid, it contributes twice as many hereditary units as the diploid. The resultant progeny are designated as *triploids* for they have a chromosome number half way between the numbers of the parental plants. These, then, are the outstanding progeny of *Alexanderi* 'Westonbirt'. They display many of the striking flower characteristics of their tetraploid parent, but in contrast, show a vigor and size found in neither of the parents. They also display a uniformity of quality and growth not found in other crosses.

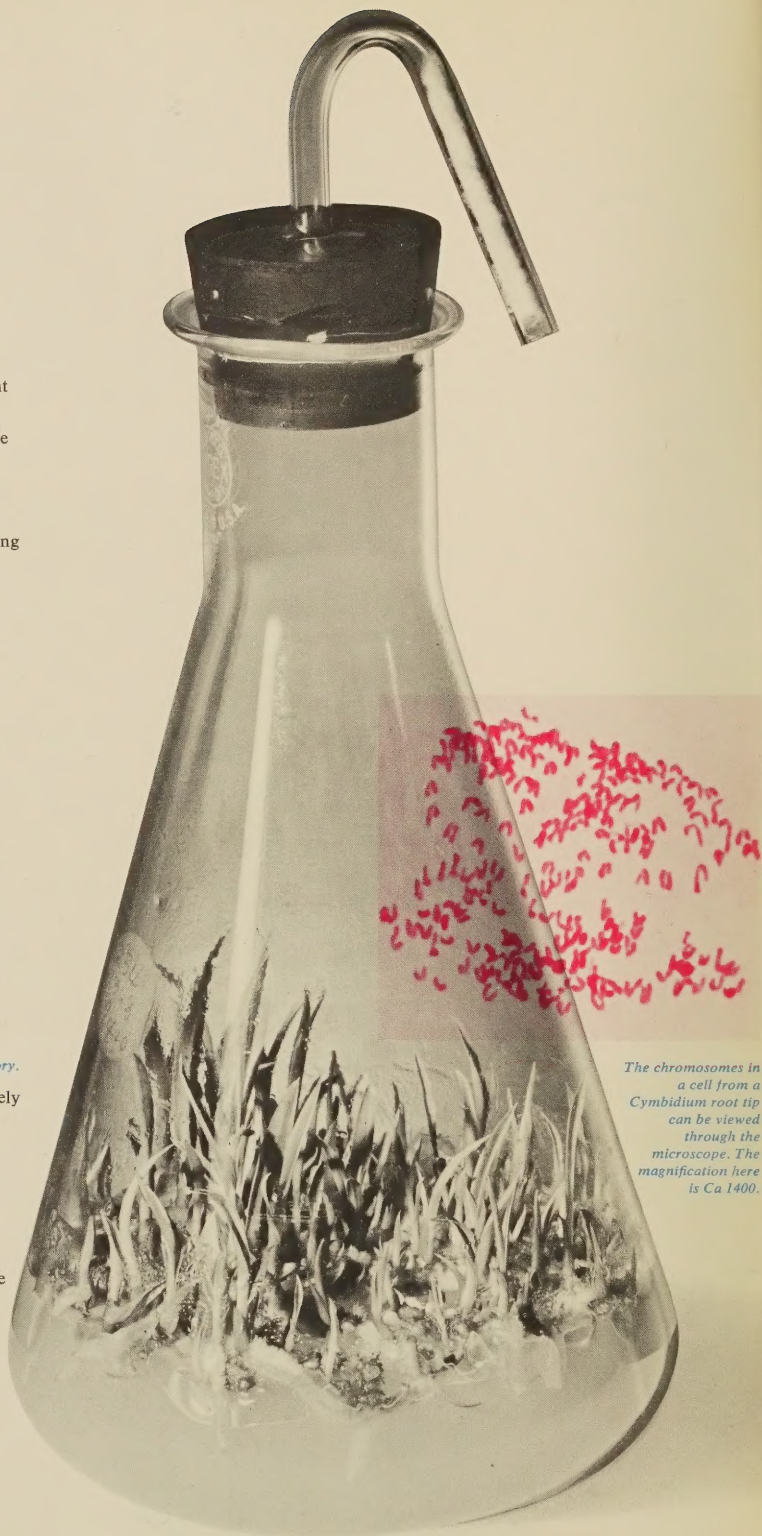
There are a number of tetraploid *Cymbidiums* other



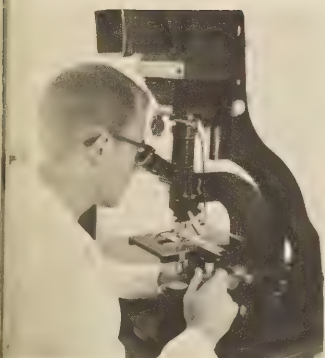
The most up to date equipment is employed in our spotless laboratory.

than *Alexanderi* 'Westonbirt'; it has been used here merely as an example. Among other distinguished tetraploids are Rosanna 'Pinkie', FCC/RHS, Babylon 'Castle Hill', FCC/RHS, Pauwelsii 'Comte d'Hemptinne' FCC/RHS, Balkis 'Perfection', Nam Khan FCC/RHS, etc. The crossing of these tetraploids with diploids may also consistently produce fine progeny. Basically, in *Cymbidiums* the best in uniform quality, growth and size is found at the triploid level. These triploids may be obtained by crossing outstanding tetraploids with good diploids. With such a thought in mind, we offer a number of triploid seedlings, produced from parents of the highest standard.

For your convenience and reference, in the following selection of seedlings, the chromosome number of each of the parental plants is designated by the symbols in parentheses behind the plant name; i.e., 2n—diploid, 3n—triploid, 4n—tetraploid, 5n—pentaploid.



The chromosomes in a cell from a *Cymbidium* root tip can be viewed through the microscope. The magnification here is Ca 1400.



The cytology of Cymbidiums is investigated with the use of a phase contrast microscope. Chromosome numbers of all parent plants are determined before hybridization is attempted.



Dr. Donald E. Wimber, our Cytogeneticist.



The seeds are initially sown in flasks under sterile conditions. Germination occurs and after 4 months they are transferred to other flasks to hasten growth. There the seedlings remain from 4 to 5 months before they are removed to flats.



Germination and initial growth of the seedlings occurs in the flask room where the light and temperature is under our control.



PRINCE CHARLES *Balkis 'Solent Queen' × Pauwelsii 'Comte d'Hemptinne' FCC/RHS*



BALKIS 'PERFECTION' (4n)

This, the finest Balkis which ever bloomed, did so first in England in 1951. Because the spike was rather small, it was not then deemed fit to be exhibited for an award. Having been obtained by Dos Pueblos from Exbury, it was bloomed here for the first time to perfection in 1954, and immediately caused a furor. It is a perfectly round flower, white, with a faint blush of pink, and a magnificent lip with a solid pink apex. Many Balkis have already been used as successful parents to produce some highly regarded crosses, among others, Prince Charles and Joan of Arc. We feel that this Balkis exhibits qualities shown by none of the others.

Balkis 'Perfection' resulted from a backcross of *Rosanna 'Pinkie'* to *Alexanderi 'Westonbirt'*; *Rosanna 'Pinkie'* being *Alexanderi 'Westonbirt'* mated with *Kittywake*. In Balkis, with this backcross, are concentrated many of the desirable characteristics of *Alexanderi 'Westonbirt'*. Thus it will breed truer than a raw unrelated tetraploid-tetraploid cross. For this reason we have used this plant extensively in our breeding program. Whites and pinks should predominate in almost any cross with Balkis 'Perfection'.

DP 4077 BALKIS*Alexanderi 'Westonbirt' FCC/RHS (4n) ×**Rosanna 'Pinkie' FCC/RHS (4n)*

This remake hardly requires explanation. Using both tetraploid parents here, the expectation could hardly be any higher. Selected plants from this cross can be used as future parents, rivaling our fine cultivars of Balkis 'Perfection' and 'Snowdon'. Color is expected to be blush white.

DP 4087 Blue Smoke 'Green Meadow' (2n) ×*Balkis 'Perfection' (4n)*

Blue Smoke 'Green Meadow' is larger than most of the cross, with better form and a heavy red-orange vee-marking on the lip. In making this cross we are aiming toward yellow and green tints in at least part of the progeny. Remembering the fine yellow Imbrose (lowianum × Rosanna 'Pinkie'), and the greenish Ispahans (Lowio-grandiflorum × Rosanna 'Pinkie'), we are expecting offspring here with many yellow and light green flowers of equally fine form.

DP 4100 Dorchester 'Alpha' (3n) ×*Balkis 'Perfection' (4n)*

This cross is capable of rewarding us with noble spikes of white and blush flowers of lovely form. Dorchester 'Alpha' is notable for its tall and strong spikes, while Balkis 'Perfection' has possibly the finest form yet seen in a Cymbidium. White flowers should predominate.

DP 4101 Flamingo 'Nobilior' FCC/RHS (5n) ×*Balkis 'Perfection' (4n)*

In crossing the famous pentaploid, Flamingo 'Nobilior', with Balkis 'Perfection', both Alexanderi 'Westonbirt' hybrids, we are concentrating many of the famous characters of Alexanderi 'Westonbirt' in the progeny. We are probably safe in saying that certain plants from this cross will serve satisfactorily as future stud stock. Chromosome numbers will vary in the offspring, but judging from the magnificent progeny that Flamingo 'Nobilior' has produced, even those plants of an aneuploid nature above a tetraploid may be useful in breeding.

DP 4107 Dante FCC/RHS (2n) ×*Balkis 'Perfection' (4n)*

Dante was a cross made by H. G. Alexander and registered in 1932. The same year a selected form of this cross was awarded an FCC and subsequently this clone was purchased by Lionel de Rothschild for the Exbury collection. It became well known for its prodigious number of flowers of a heavy texture and its arched spike habit. The colour is rose-pink with veining of a deeper tint; the lip is whitish with dark red spots.

Dante FCC is not unproven as a parent, for it has sired such hybrids as Inamorata, Rosinante and Nubium.

In this cross we expect whites and pinks rivaling the Inamoratas.

Prices range from \$7.50 to \$125.00 depending on size and age of seedling, ranging from 3" pots to plants in spike.





CYMBIDIUM CULTURE AT DOS PUEBLOS



Kermit Hernlund, Manager

We sincerely believe at DOS PUEBLOS that, given the same soil and climatic conditions which we enjoy here in our particular region of coastal Southern California, our methods in culture are more than any other, likely to favor the successful production of Cymbidiums. A brief description of those methods follows.

Without a doubt, there are several hundred different mixes or composts used by Cymbidium growers the world over and the results with these growing media are about as numerous.

We use a relatively simple medium and consider one of the most important ingredients to be Palco Wool; it is nothing more than the finely shredded bark of the California Redwood. This product is manufactured by the Pacific Lumber Company and is available throughout the United States at most lumber dealers or insulation companies. Palco Wool gives the much needed aeration and in addition is relatively inert so that the compost remains uniform over a long period—two very important items for the vigorous growth of plants.

Our ground bed compost is made up of the following items, figured on a volume basis: $\frac{1}{3}$ Palco Wool, $\frac{1}{3}$ German Peat moss, $\frac{1}{3}$ dried Oak leaves (not decomposed leaf mold). To this is added 10 per cent steer manure and one pound of single super phosphate to every 10-cubic feet of material. These materials are then run through a shredding machine twice for an even mix. **1 & 2** We combine this mixture with an equal amount of good sandy soil (80 to 90 per cent sand). The resulting compost is placed in the beds, evenly tamped, and watered for an hour with overhead sprinklers. The beds are then ready for planting. **3 & 4**

Out potting mixture is essentially the same as for our ground beds except sandy soil is not added. Instead, about ten per cent of dead sphagnum moss is added to the above-mentioned ingredients.

We believe the moss has a tendency to help hold the moisture and also aids in retaining the nutrients longer.

A firm pressure with the thumbs is sufficient in potting with this mix; potting very tightly is not desirable. **5**

We believe the best nutrient levels for ground bed culture should be as follows: (the figures are calculated in parts per million based on the estimated moisture capacity of 30 per cent and with a pH from 6 to 6.5)

Approximate soluble salts	800 to 1200
Nitrate and ammonia nitrogen	100
Phosphate phosphorous	50 to 60
Potassium	200 to 250
Calcium	2500 to 3000
Magnesium	250 to 300

Cymbidiums will tolerate a much higher nutrient level than the above figures without damage to the plants. However, they require more attention and much heavier watering. If they are allowed to become the least bit dry, serious trouble may ensue. We have our growing media analysed every thirty days and add only the elements that are lower than they should be. For the hobbyist or small grower who may not have a sufficient number of plants to warrant the services of a soil chemist, we would suggest using a standard fertilizer mix, such as Vigoro. This should be applied in the dry form at the rate of three to four pounds per 100-square feet every thirty days from March until November.

Another alternative would be the use of liquid fertilizer.

A proportioner is very useful but if not available, it may be mixed in a container and applied with a watering can. We have had excellent results using Instant Vigoro at the rate of four pounds per 100 gallons or one ounce to a gallon of water. When applying liquid fertilizer, be sure your beds or pots are thoroughly wet before applying, then give them another good watering three or four days later. We feed the plants in pots with liquid fertilizer every two weeks and water heavily every week with overhead sprinklers for at least one hour. **6**

Another important item in growing and successfully blooming Cymbidiums is light. In order to assimilate the food, the plant must have plenty of light and fresh air. We give some of our plants as much as 6000 foot candles of light with no apparent harm; however, in an intensity of about 4000 foot candles, the plants should do very well. Cymbidiums are like any other living plant or animal and will respond to good care and attention. It cannot be stressed too strongly that if you expect good results all the things outlined must be followed regularly; keep records of your feeding dates, records of your watering, etc., it will pay off in beautiful plants and an abundance of flowers. **7**



Disease Control

Transplanting flasks



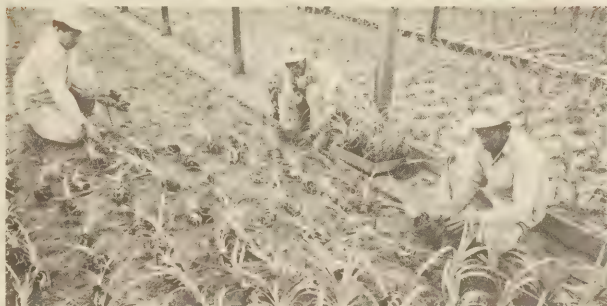
3



6



2



4



5



Back Bulb Propagation



7



NAM KHAN 'VERULAM' *Pauwelsii* 'Comte d'Hemptinne' FCC/RHS × *Rosanna* 'Pinkie' FCC/RHS



NAM KHAN FCC/RHS (4n) This is a cross of two of the most famous parents in the world today, *Rosanna* 'Pinkie' and *Pauwelsii* 'Comte d' Hemptinne'. It is thought by many to be a highly promising new tetraploid parent. Producing massive arching sprays of light rose-pink flowers with a crimson splotched labellum, it is one of the most eye catching plants in our houses. We have already seen a number of seedlings from Nam Khan FCC crossed with *Nimrod* AM bloom. Nam Khan FCC has produced a multitude of colors in this combination, light pinks, yellows, some with touches of greens and all with numerous flowers. Encouraged by these first samplings, we have chosen to use this plant as a parent in our breeding program.

DP 4039 NAM KHAN

Pauwelsii 'Comte d' Hemptinne' FCC/RHS (4n) × *Rosanna* 'Pinkie' FCC/RHS (4n)

For magnificent colored flowers, Nam Khan is one of our most highly regarded matings. Massive spikes of numerous flowers are produced from vigorous plants; large lips with brilliant markings showing the colored background of *Pauwelsii* may not be uncommon.

We think so highly of this cross that we have made use of several of the clones of Nam Khan as parental plants here at Dos Pueblos.

DP 4062 *Nam Khan* FCC/RHS (4n) × *Alexanderi* 'Westonbirt' FCC/RHS (4n)

We have chosen to combine two well known tetraploids in this mating. Results recalling many of the Swallows may be forthcoming, though possibly with a greater predominance of light tones.



ROSALITA 'DOS PUEBLOS' *Delysia* × *insigne*

DP 4082 *Apollo* 'Exbury' FCC/RHS (2n) × *Nam Khan* FCC/RHS (4n)

Yellow shades should predominate in this fine cross and many flowers to the spike. Indeed, the spikes should attain very great size.

Icarus, bred from *Apollo* 'Exbury', threw enormous spikes, while *Nam Khan*, bred with *Nimrod* did the same. Fine form may also be looked for in this cross. . . .

DP 4119 *Omega* 'Dos Pueblos' (3n) × *Nam Khan* FCC/RHS (4n)

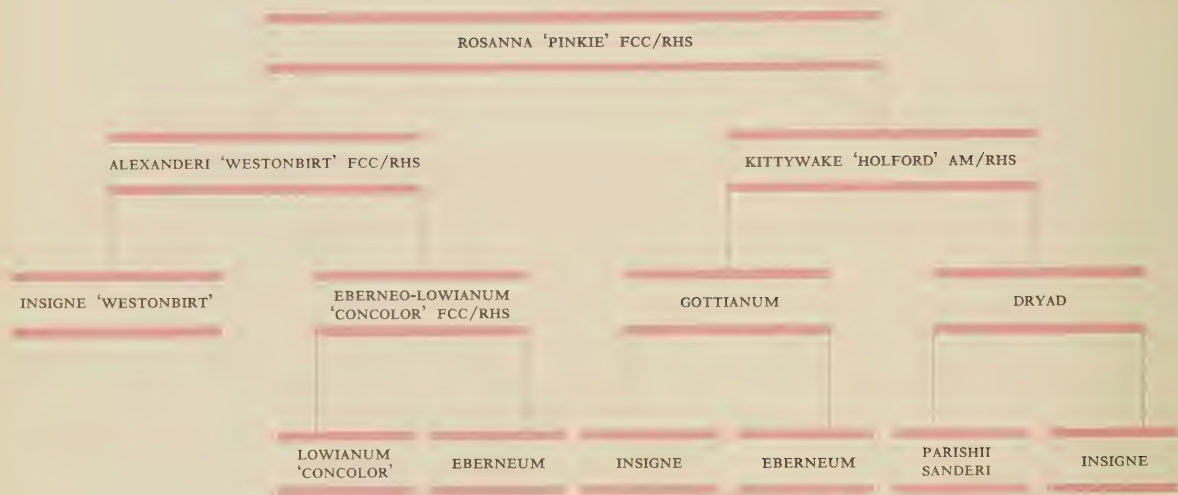
Omega 'Dos Pueblos' has come to be regarded as one of our finest stud plants. Burnt orange in color, it has been combined with a very promising tetraploid from which we expect highly colored flowers, with yellows and oranges predominating. Heavy production will doubtless be attained in a great percentage of these seedlings.

Prices range from \$5.00 to \$75.00 depending on size and age of seedling, ranging from 3" pots to plants in spike.

ROSANNA 'PINKIE' FCC/RHS *Alexanderi* 'Westonbirt' FCC/RHS × *Kittywake* 'Holford' AM/RHS



ROSANNA 'PINKIE' FCC/RHS (4th)



ROSANNA 'PINKIE' FCC/RHS (4n) This truly great plant whose march to glory required a Global War to check, has resumed its triumphal progress towards becoming perhaps the most sought after parent in the world today. Purchased by the late Lionel de Rothschild from H. G. Alexander, it bloomed first in 1930 at Exbury, the Rothschild English estate, and the crosses made at that time produced in 1941 such memorable plants as Imbros, Inamorata, Ispahan and Islander. World War II could not prevent another blooming but the fighting effectively put an end to further breeding from Rosanna 'Pinkie' with the mournful result that while losing nothing of its splendor, it remained unproductive during the years of conflict.

DOS PUEBLOS, acquiring Rosanna 'Pinkie' in 1953, had the enormous satisfaction of seeing it bloom in the following year, and is now able for the first time in two decades to offer unflowered seedlings from this famous parent.

DOS PUEBLOS feels confident that the crosses here described will produce plants worthy to be ranked with the finest Cymbidiums to be grown at anytime, anywhere.

DP 4029 INAMORATA

Dante FCC/RHS (2n) ×

Rosanna 'Pinkie' FCC/RHS (4n)

This is a remake of probably the most famous cross raised at Exbury, producing superb forms taking closely after its parent Rosanna 'Pinkie'. Because only a few plants of this cross were grown originally at Exbury, we expect even finer cultivars than are now in existence from our seedlings. Color should be mostly blush white with some deeper pinks.

DP 4030 Dorchester 'Alpha' AM/RHS (3n) ×

Rosanna 'Pinkie' FCC/RHS (4n)

Few colors but whites and blush pinks should result from this cross. We are employing the remarkable triploid, Dorchester 'Alpha' for its vigorous growth and flower productivity and also for the uniform progeny that it produces. In our experience at Dos Pueblos, we have found few other triploid clones that behave in the same manner.

DP 4035 Miretta 'Dos Pueblos' (2n) ×

Rosanna 'Pinkie' FCC/RHS (4n)

We have in this Miretta what we believe to be one of the best all-around cultivars available. The original cross of Miretta was made by Messrs. McBean who used Claudette 'Invicta' and Mirabel FCC/RHS. The latter plant, of course, is famous for having sired the Blue Smokes. Among the Mirettas a large percentage of good greens have been produced; however, as a rule the Mirettas are not free flowering. The cultivar that we have used is of a vigorous habit and is far more floriferous than the average, producing from 12 to 18 flowers per spike of an apple green color. Judging from other greens crossed with Rosanna 'Pinkie,' we expect clear light yellows and whites with tinges of greens.

DP 4036 Rosanna 'Pinkie' FCC/RHS (4n) ×

Babylon 'Castle Hill' FCC/RHS (4n)

Increased flower production over Rosanna 'Pinkie' will be one of the major assets of this tetraploid mating. This is one of the very finest crosses that we are offering. With the pink background of both parents, we expect many award caliber plants to be found here: too, many seedlings may proffer the qualities of potential parents.



KAIROUAN 'EXBURY' AM/RHS
Adelma 'Springtime' × Rosanna 'Pinkie' FCC/RHS

DP 4037 *Eberneo-lowianum* 'concolor'
FCC/RHS (2n) × *Rosanna* 'Pinkie' *FCC/RHS* (4n)

Eberneo-lowianum 'concolor' is probably one of the most singular primary hybrids in existence, for it sired the renowned tetraploid, *Alexanderi* 'Westonbirt'. An interesting sidelight has recently come to light. It also fathered *Minivet* 'Maxine' which has now been shown to be a triploid, and we also have here at *Dos Pueblos* a triploid *Miriam*. Neither *Minivet* nor *Miriam* have a known tetraploid in their background, but each have *eberneo-lowianum* 'concolor' as an immediate parent. This indicates that in these cases *eberneo-lowianum* 'concolor' may have functioned in the same unique manner that it is thought to have acted in the production of *Alexanderi* 'Westonbirt'.

Eberneo-lowianum 'concolor,' though bearing only from 6 to 9 flowers per inflorescence, follows after its parent, *eberneum*, in producing a prodigious number of spikes. We hope to see a number of light yellows along with pinks result from this cross with *Rosanna* 'Pinkie.'

DP 4038 (*Joy Sander* 'Omega' × *Sparta*) (2n) ×
Rosanna 'Pinkie' *FCC/RHS* (4n)

Joy Sander 'Omega' × *Sparta*, bloomed here as a seedling from Sanders for the first time in 1954. Although having a pleasing shape, its color was the most singular thing, it being described by some as 'ashes of roses'. As in most reddish *Cymbidiums*, *I'Ansonii* and *cooperi* are found several times in its ancestry. We are striving for some deep pink shades of uniform color in this cross.

DP 4042 *Heathrow* 'Mary Bea' (2n) ×
Rosanna 'Pinkie' *FCC/RHS* (4n)

Using the famous *Rosanna* 'Pinkie' with one of our most highly regarded greens (see DP 119) we expect to see many yellow to light green tints along with the more usual blush shades.

DP 4046 *Rosalita* 'Dos Pueblos' (2n) ×
Rosanna 'Pinkie' *FCC/RHS* (4n)

Rosalita is one of the finest diploid plants that we know. It exhibits almost all of the qualities we look for in selecting plants for parents. It shows a floriferousness seldom exceeded in *Cymbidiums*, with almost every pseudobulb flowering. The spike carries twenty or more well-spaced flowers of a heavy pink color and a densely marked beet-red lip. The habit of the plant takes closely after one of its parents, *Insigne*, with its long, narrow leaves, stubby pseudobulbs and erect spikes. We believe this to be almost the perfect parent for our purposes. The color expectancy of the cross leans heavily towards whitish-pinks and pinks.

DP 4103 *Rosanna* 'Pinkie' *FCC/RHS* (4n) ×
Balkis 'Perfection' (4n)

In this mating we are backcrossing *Balkis* 'Perfection' to one of its parents, *Rosanna* 'Pinkie'. Many exceptional stud plants should result from these seedlings, many of the desirable genetic characters of *Rosanna* 'Pinkie' may be concentrated in the progeny. For exhibition material and for stud purposes we recommend this cross highly.



BALKIS *FCC/RHS* *Alexanderi* 'Westonbirt' *FCC/RHS* × *Rosanna* *AM/RHS*

ISPAHAN 'SPRINGTIME' *Lowio-grandiflorum* × *Rosanna* 'Pinkie' FCC/RHS



IMBROS 'EXBURY' *lowianum* × *Rosanna* 'Pinkie' FCC/RHS



ISPAHAN *Lowio-grandiflorum* × *Rosanna* 'Pinkie' FCC/RHS

Prices range from \$7.50 to \$125.00 depending on size and age of seedling, ranging from 3" pots to plants in spike.



ALEXANDERI 'WESTONBIRT' FCC/RHS AND LINDLEY MEDAL (4n)

The Cymbidium world owes an enormous debt of gratitude to this illustrious parent whose progeny has become a byword for excellence with growers everywhere. Itself the result of a dazzlingly successful cross arrived at by the happiest of chances, Alexanderi 'Westonbirt' is preminent not only as an immediate parent but as a rich source of influence over descendants which are rapidly



PRINCESS ELIZABETH #347 *Alexanderi* 'Westonbirt' FCC/RHS × *Princess Astrid*

becoming distinguished as parents in their own right. Of this new and exciting group of Cymbidiums Rosanna 'Pinkie', the Balkis and the Babylons are exotically beautiful examples.

Indeed, without Alex West, as this hybridizing giant is affectionately called, it would be hard to imagine how better seedlings could be grown and such of its offspring as the Cooksbridges, Alexfriedas, Alexettes and Yorks, recently produced, prove to us that it still possesses potentialities by no means fully explored. These, and plants of a like quality, assure the grower that Alexanderi 'Westonbirt' hybrids will go on winning awards for a long time to come.

DP 104 JUNGFRAU

Alexanderi 'Westonbirt' FCC/RHS (4n) × Eagle 'Mt. Shasta' (3n)

We have remade this famous cross of H. G. Alexander, using an uncommonly free flowing Eagle.

The Eagle used was a triploid; in spite of this, the seedlings have almost all proven to be triploids or very near triploids. They are among the most vigorous and even growers of the seedlings that we are offering. One merely has to note the high quality Jungfraus in existence today to predict the excellence of these seedlings. Whites are to be expected.

DP 119 Heathrow 'Mary Bea' (2n) × Alexanderi 'Westonbirt' FCC/RHS (4n)

Heathrow 'Mary Bea', a famous plant grown and bloomed first in Southern California, was imported as a seedling from Sanders. The clone is well known for its apple-green flowers and brilliantly marked lip of vertical crimson stripes. This is another cross from the famous Claudette 'Invicta', parent of the Mirettas and Claudonas. We have used this plant in breeding, primarily for its arching sprays of numerous flowers. Color expectancy in this cross with Alexanderi 'Westonbirt' runs the gauntlet from blush whites through yellows and into shades of light green.

DP 140 Spartan Queen 'Mrs. Ireland' (2n) × Alexanderi 'Westonbirt' FCC/RHS (4n)

Here is a cross reminiscent of the famous Cooksbridge except Spartan Queen bears many more flowers on its spike than Kangar; more than 20 flowers of deep rose pink, of pleasing form and fine spike habit. This highly regarded cross should reward us with fine whites and pinks.

DP 157 Alexanderi 'Westonbirt' FCC/RHS (4n) × Lowville (2n)

There is a wealth of color and strength in the breeding of Lowville and the plant used here bears this out in every respect. A strong spike with many deep rose flowers would lead one to expect some fine pinks when crossed with Alexanderi 'Westonbirt'. These seedlings are exceedingly strong and uniform growers and highly regarded here at Dos Pueblos.

DP 237 Irina 'Celeste' (2n) × Alexanderi 'Westonbirt' FCC/RHS (4n)

Here at Dos Pueblos we have bloomed a large number of two recent crosses with Irina 'Celeste'; Brentwood and Nila. Some really superior green forms have been selected from among these flowering seedlings. Irina 'Celeste', a chartreuse in bright light, and really a magnificent green if shaded properly, is a strong grower of very excellent free flowering properties.

With Alexanderi 'Westonbirt', tints of yellows and greens should be found.

DP 332 Frivolity 'Alba' (2n) × Alexanderi 'Westonbirt' FCC/RHS (4n)

This unusual and thoroughly noteworthy plant, producing albino flowers, is the result of a rare recombination of genetic material, a cross of Ceres and Wheatear, both of which possess colored blooms. Since Frivolity 'Alba' is an extremely floriferous diploid, we have several times made use of it in our breeding program.

Frivolity 'Alba', crossed with Alexanderi 'Westonbirt', may produce some white flowers but the effect of its parents' brightly hued blossoms must also be expected.



NADINA 'CONCOLOR' *Alexanderi 'Westonbirt' FCC/RHS × Nada*

DP 387 BODMIN MOOR

Alexanderi 'Westonbirt' FCC/RHS (4n) × Erica Sander (2n)

We are offering here a remake of the renowned Bodmin Moor cross, first made by Sanders. Little need be said for these famous hybrids. The Erica Sander used was an extraordinarily large green of good form, and it produces 20 or more flowers per spike. In our opinion the cultivar that we have used here is much superior to the Goldilocks cultivar that originally made the cross. Thus we expect an even higher percentage of high quality flowers than was found in the original cross. The colors should follow very closely after the present Bodmin Moors with yellows and greenish-whites predominating.

DP 366 COOKSBRIDGE

Alexanderi 'Westonbirt' FCC/RHS (4n) ×
Kangar [McBean] (2n)

Without doubt, one of McBeans' greatest achievements in the Cymbidium world was the mating of *Alexanderi* 'Westonbirt' and *Kangar* to make Cooksbridge. Here at Dos Pueblos we have bloomed some of these plants, pinks and whites of great size and splendid form; so it seemed only natural to remake this cross. The *Kangar* used was purchased from McBeans and we look forward with the utmost certainty to flowering plants of equal merit to the original cross.



COOKSBRIDGE #3 *Alexanderi* 'Westonbirt' FCC/RHS × *Kangar*

DP 386 GLENDORA

Doris Aurea 'F. J. Noonan' (2n) × *Alexanderi*
'Westonbirt' FCC/RHS (4n)

Glendora has produced some very fine things indeed, so much so that a remake of the cross would seem well worthwhile. The 'F. J. Noonan' cultivar of the *Doris Aurea* used here was unusual for its large size, orange yellow color and heavily colored lip. Many fine yellows of unusual shades should result.



COOKSBRIDGE #4 *Alexanderi* 'Westonbirt' FCC/RHS × *Kangar*

DP 4057 GWEN SHERMAN

Miretta 'Dos Pueblos' (2n) × *Alexanderi* 'Westonbirt' FCC/RHS (4n)

Miretta 'Dos Pueblos', purchased from McBeans' as a seedling, bloomed for us for the first time in 1952. Recognizing it as superior to most of the *Mirettas* with its great vigor and free flowering qualities, we have used this form often in our hybridizing program.

Here we expect results reminiscent of many of the Bodmin Moors, with yellows and light-greens present.

DP 4061 GLASGOW

Eberneo-lowianum 'concolor' FCC/RHS (2n) × *Alexanderi* 'Westonbirt' FCC/RHS (4n)

Although this cross has already been named, we are certain that *Alexanderi* 'Westonbirt' was not utilized in the mating for it was registered in 1922, long before hybrids of this famous stud plant were forthcoming.

Here we have backcrossed *Alexanderi* 'Westonbirt' to one of its original parents. Thus, we are concentrating the genetic determinates for the concolor characters, for it was with this same cultivar that the original *Alexanderi* was made. In this cross we are aiming for triploids, some with concolor flowers. With fortunate recombinations of characteristics, we expect the flower production of *lowianum* to be exhibited in a number of the seedlings.

DP 4080 ALEXETTE

Janette 'A. A. McBean' FCC/RHS (3n) × *Alexanderi* 'Westonbirt' FCC/RHS (4n)

So long as remakes of famous crosses are being made, it would be folly not to remake *Alexette*, but using, perhaps another *Janette* in the hope of producing more flowers to the spike.

The unexcelled form, color and size of present day *Alexettes* offers an incentive difficult to ignore and so we used the fine yellow *Janette* 'A. A. McBean' FCC, RHS as the seed parent. Unlike most triploids this variety of *Janette* often produces seedlings of great vigor and uniformity of growth. We have high hopes for an improved *Alexette*.

DP 4108 GRACE MITCHELL

Alexanderi 'Westonbirt' FCC/RHS (4n) × *Apollo* 'Exbury' FCC/RHS (2n)

Apollo 'Exbury' is rapidly gaining recognition as a parent although only three of its crosses of any note have been seen so far. *Icarus* (*Apollo* × *Rosanna*), which is capable of producing grand spikes with twenty or more flowers, *Sea Foam* (*Blue Smoke* × *Apollo*), a beautiful green seedling which created a sensation at the 1955 Santa Barbara Cymbidium Show, and *Grace Mitchell*. The latter cross is notable for its generous spikes of well spaced white, yellow and beige flowers of fine form and is well worthy of being remade.

SWALLOW

DP 377 *Pauwelsii* 'Comte d' Hemptinne'

FCC/RHS (4n) × *Alexanderi* 'Westonbirt' FCC/RHS (4n)

DP 150 *Alexanderi* 'Westonbirt' FCC/RHS (4n)

× *Pauwelsii* 'Comte d' Hemptinne' FCC/RHS (4n)

Though this hybridization has been done several times before we recognize the excellence of the combination and offer the reciprocal crosses of *Swallow*. They have proved to be vigorous growers and good bloomers with very high quality flowers. The cross has yielded predominantly light pinks and yellows with some pale greens.

DP 317 *Blue Smoke* 'Sea Green' (2n) ×

Alexanderi 'Westonbirt' FCC/RHS (4n)

DP 402 *Alexanderi* 'Westonbirt' FCC/RHS (4n)

× *Blue Smoke* 'Green Meadow' (2n)



PRINCESS ELIZABETH #345 *Alexanderi* 'Westonbirt' FCC/RHS × *Princess Astrid*

DP 258 *Blue Smoke* 'Beverly Glen' BM/CS (2n)

× *Alexanderi* 'Westonbirt' FCC/RHS (4n)

We are offering a selection of three *Blue Smokes* crossed with *Alexanderi* 'Westonbirt'. We do not feel qualified to offer one as superior to the others. Choice is a matter of personal taste. The *Blue Smokes* are among the most popular green hybrids in the world today. *Blue Smoke* is a cross of *lowianum* var. *Pitts* and *Mirabel* FCC/RHS. Here a return to *lowianum* with good results, shows that the species are not entirely without merit for present day hybridizations.

In these hybrids we should eliminate to a large extent the great strap-like leaves that are so characteristic of the *Blue Smokes*. By many, this dense foliage is considered undesirable; with the dominance of *Alexanderi* 'Westonbirt' we expect more open plants. Color expectancy runs from yellows to light greens.



YORK 'SNOWSONG' *Shina Black* × *Alexanderia* 'Westonbirt' FCC/RHS



Adonis × *Alexanderi* 'Westonbirt' FCC/RHS



BABYLON 'CASTLE HILL' FCC/RHS *Olympus 'Rex' FCC/RHS* × *Pauwelsii 'Comte d' Hemptinne' FCC/RHS*

BABYLON 'CASTLE HILL' FCC/RHS (4n)

Little can be said to add to the illustrious reputation of this plant as parent. A proven tetraploid, its progeny includes such famous crosses as Carillon, Tinsel, Vieux Rose and Runnymede. Remarkable for its vigorous growth and free blooming qualities, Babylon imparts to its seedlings its fine broad lip, size, substance and beautiful colors, predominantly pink. We offer the following seedlings, confident that many new color combinations will result, and all with the vigor and free flowering qualities of this famous plant.

DP 158 TINSEL

Pearl 'Magnificum' FCC/RHS (2n) ×

Babylon 'Castle Hill' FCC/RHS (4n)

Little can be said to add to the reputation of this famous cross. The large flowers of heavy substance in shades of yellow, orange and copper, some with hint of green, are magnificent indeed. The flowers are of fine form and open very flat.



TINSEL 'GOLD DUST' AM/AOS *Babylon 'Castle Hill' FCC/RHS × Pearl 'Magnificum' FCC/RHS*

DP 154 Carisona 'Glendessary' (2n) ×

Babylon 'Castle Hill' FCC/RHS (4n)

One of our most highly esteemed diploids is Carisona 'Glendessary'. It is a magnificent cultivar of great vigor and free flowering properties, producing twenty or more flowers per stem. Besides its floriferous tendencies, we have used this clone extensively because of its rather unique color, a very deep rose with a hint of blue. Mated with the renowned Babylon, rose shades should be very common.

DP 4020 *Remus 'Vivid' (2n) × Babylon 'Castle Hill' FCC/RHS (4n)*

In Remus 'Vivid' we have an extremely dark red Cymbidium, apparently deriving much of its color from the species *I'Ansonii*, that appears twice in its ancestry. Most of the crosses with the Babylons as one parent have had a red or dark pink as the other. The Fantasias, Carillons, Vieux Roses, and Crescendos are examples of this type of breeding. In this cross we are following along the same line, though possibly this is the deepest red Cymbidium yet used. Rose to pink shades are expected.

DP 4024 *Babylon 'Castle Hill' FCC/RHS (4n) × Rosalita 'Dos Pueblos' (2n)*

Again we use our outstanding Rosalita, this time with the Castle Hill cultivar of Babylon. Some exceptional lips may be produced upon predominately rose-pink flowers.

DP 4082 *Apollo 'Exbury' FCC/RHS (2n) × Babylon 'Castle Hill' FCC/RHS (4n)*

In the Exbury cultivar of Apollo, a cross made by H. G. Alexander between Curlew 'Westonbirt' and Miranda 'Golden Queen', we have an exceedingly floriferous plant often showing twenty or more flowers to the spike.

This form has large, light, chartreuse flowers and a yellow lip that is marked heavily with rich red-brown. In breeding, Apollo 'Exbury' has been crossed with Pauwelsii 'Comte d' Hemptinne' and Alexanderi 'Westonbirt' to produce Icarus and Grace Mitchell, respectively. Recently good forms of Sea Foam, a cross of Apollo 'Exbury' with Blue Smoke 'Green Meadows', have been shown. In this cross we expect progeny somewhat similar to the Tinsel line, with immense spikes. Color expectancy is varied, with shades from rose through yellow to tints of green.

DP 4118 *Omega 'Dos Pueblos' (3n) × Babylon 'Castle Hill' FCC/RHS (4n)*

A seedling of Joy Sander 'Omar' and Bodmin Moor 'Golden Glow' blooming here for the first time was considered so remarkable in flower characters that several crosses were attempted even though it was known to be a triploid. To our surprise it proved to be exceptionally fertile with seedlings of even growth.

Omega 'Dos Pueblos', as we called this plant, produces huge erect spikes with flowers of a burnt orange color, one of the most colorful things in our lath houses. By uniting it here with Babylon, we expect very vigorous plants producing flowers of yellow, orange and rose tones.



FLAMINGO 'NOBILIOR' FCC/RHS *Alexanderi* 'Westonbirt' FCC/RHS × *Merlin* 'Westonbirt' FCC/RHS



FLAMINGO 'NOBILIOR' FCC/RHS (5n)

Flamingo 'Nobilior' has the reputation of being a fine stud plant. A look at the impressive array of its outstanding progeny will convince one of the fact: Queen Mary, Queen Elizabeth, Harmachis, Flammenco, Argosy, etc.

Flamingo 'Nobilior', a pentaploid, has as parents *Alexanderi* 'Westonbirt' and *Merlin* 'Westonbirt'. How this singular polyploid condition arose remains something of a mystery, but we do know that despite this condition it has been able to sire a number of unique progeny. Here we have simply crossed it with other tetraploids. Chromosome numbers will vary somewhat in the progeny with the majority ranging between tetraploid and pentaploid conditions. These crosses should be awaited with eagerness, for the possibility of producing some exceptional offspring is very great.

DP 209 RHODA

Flamingo 'Nobilior' FCC/RHS × *Pauwelsii* 'Comte d' Hemptinne' FCC/RHS (4n)

We have made a cross already previously named, but not produced with these parents. Many excellent colored forms should result from this mating; yellows, oranges and even pinks.

DP 4074 *Flamingo* 'Nobilior' FCC/RHS (5n) × *Babylon* 'Castle Hill' FCC/RHS (4n)

Few crosses among the higher polyploid Cymbidiums have so far bloomed. Most of the crosses of this sort that have done so have included *Alexanderi* 'Westonbirt' as one of the immediate parents. We may point to Nam Khan (*Rosanna* × *Pauwelsii*) and Prince Charles (*Balkis* × *Pauwelsii*) as exceptions. This unique combination may bring to light many impressive forms and colors.

BABYLON 'CARPENTIER' (4n)

There has been a good deal of controversy among hybridists as to the relative merits of the two great Babylons, 'Castle Hill' and 'Carpentier'. The former was used extensively in England and sired many fine

seedlings before the Carpentier cultivar came into prominence and as yet we only have two crosses of the latter plant to consider; Crescendo bred with Ceres, 'E. J. Hanbury' and Fantasia bred with Susette 'Perfection'. Large plantings were made here at Dos Pueblos of both these crosses and some of the finest things ever seen in the Cymbidium world resulted. Rose pink flowers of the largest size, heavy texture, fine form and many to the spike were not uncommon. It can be pointed out that this Carpentier variety puts on twice the number of flowers to the spike as 'Castle Hill' and for that reason, if for no other, we look forward to the blooming of these new crosses with the greatest confidence.

DP 151 *Babylon 'Carpentier' (4n) × Cremona 'Black Prince' FCC/RHS (2n)*

It was not long ago that Cremona 'Black Prince' was considered by McBean to be one of the finest stud plants. We have used it here for its most famous characteristic, the outstanding lip. The breeding behind Cremona is similar in some respects to Susette 'Perfection' which produced the Fantasias. Rose, peach and orange tones should occur.

DP 234 *Babylon 'Carpentier' (4n) × Rosalita 'Dos Pueblos' (2n)*

Here is an ideal cross, a fine pink tetraploid mated with a fine pink diploid. Both plants are sturdy growers, dependable bloomers and both are capable of producing eighteen flowers and more per spike. This particular cross should not fail to produce a profusion of exquisite pinks.

DP 291 *Miretta 'Glendessary' BM/CS (2n) × Babylon 'Carpentier' (4n)*

Miretta 'Glendessary' is a handsome green awarded first prize for the most outstanding seedling of the 1950 Santa Barbara Show. Though of excellent quality it seldom has more than 8 or 10 flowers per stem. Because of its remarkably good flower we have ignored the few flowered characteristic of the Miretta and are relying on the floriferous Babylon to exert its dominance in this case. Hues of peach and yellowish tones may appear here.

DP 297 *Balkis (#3) (4n) × Babylon 'Carpentier' (4n)*

A large number of tetraploid Balkises have recently come to light. This is one of them. We do not own the entire clone of this Balkis and are unaware of the location of some of the pieces so we do not feel free to give it a cultivar name. Nevertheless, it is an extremely handsome white of large size. A union of these two tetraploids will doubtless yield a large number of pinks of fine form.

PAUWELSII 'COMTE D' HEMPTINNE' FCC/RHS (4n)

Long before any cytological studies were made on Cymbidiums, Pauwelsii 'Comte d' Hemptinne' was known to have remarkable properties as a parent plant. Together with Alexanderi 'Westonbirt' it made up the original team of tetraploids. In contrast to the latter, it carries a handsome spike with a multitude of flowers, a quality almost without fail transmitted to its progeny. Also, it contains in its genetic makeup many colors that Alexanderi 'Westonbirt' never imparts to its offspring. Colorful flowers should not be lacking in this selection of seedlings.

DP 147 MARMIE KINGSFORD

Pauwelsii 'Comte d' Hemptinne' FCC/RHS (4n) × Pearl 'Magnificum' FCC/RHS (2n)

Marmie Kingsford was first made by E. J. Hanbury in 1937 and has doubtless been repeated several times since. But like Swallow (Alexanderi × Pauwelsii) it produces such a large proportion of good things that it would be difficult to imagine a more sensible cross. An exceptionally sturdy grower, it is almost certain to give many large heavy textured flowers of fine form in colors of yellows and golds.

DP 245 SWALLOW

Alexanderi 'album' FCC/RHS (2n) × Pauwelsii 'Comte d' Hemptinne' FCC/RHS (4n)
Alexanderi 'album', although an old favorite (having received an FCC in 1911), remains an exquisite, pure white cultivar. Using this diploid, we are aiming toward highly vigorous triploid Swallows, of more floriferous tendencies than the tetraploid cross. Color expectancy is somewhat different than the tetraploid Swallows, for we expect yellow, orange and copper tones.

DP 302 PRINCE CHARLES

Balkis (#2) (4n) × Pauwelsii 'Comte d' Hemptinne' FCC/RHS (4n)
A cross made originally at Messrs. Black and Flory with Balkis 'Solent Queen'. We feel that the Balkis that we have used is quite as good as the original, being an almost pure white with wide sepals and petals forming a very round flower. The lip is a blush pink, looking very much like the lip of Rosanna 'Pinkie'. This Balkis is a tetraploid, possibly having both parents tetraploid. Color expectancy here varies from whites and pinks through yellows and orange-copper tones. Many brilliant lips may result, taking after the Pauwelsii parent.

DORCHESTER 'ALPHA' AM/RHS (3n)

We do not ordinarily employ triploids in our breeding program, but we have found this plant to be so remarkable that we have used it extensively. It has shown an extremely high fertility level in making

this and other crosses. The pods remained on the plant from 9 to 11 months before maturing and numerous seed of high quality resulted in all cases. Growth of the seedlings is exceptionally even and vigorous.

Producing husky spikes with from 8 to 12 flowers of an almost pure white, Dorchester 'Alpha' may gain extensive recognition as a stud plant. One has only to point to the General Montgomerys to predict that the progeny here may be outstanding.

The following are interesting crosses and well worth consideration. We have used here some of our most highly regarded parents.

DP 407 ALCHESTER

*Dorchester 'Alpha' AM/RHS (3n) ×
Alexanderi 'Westonbirt' FCC/RHS (4n)*
Expectancy is white.

DP 4032 *Dorchester 'Alpha' AM/RHS (3n)
× Dante FCC/RHS (2n)*
Pinks and whites may be forthcoming.

DP 4027 *Dorchester 'Alpha' AM/RHS (3n)
× Babylon 'Castle Hill' FCC/RHS (4n)*
Some exceptional forms of dark pinks may be bloomed here.

DP 4031 *Eberneo-lowianum 'concolor'
FCC/RHS (2n) × Dorchester 'Alpha' AM/RHS (3n)*
Color expectancy leans heavily toward white.

DP 4051 *Dorchester 'Alpha' AM/RHS (3n)
× Miretta 'Dos Pueblos' (2n)*
Tones from pink through yellow and light green may be expected.

FANTASIA *Babylon 'Carpentier' × Susette 'Perfection' AM/RHS*



Prices range from \$5.00 to \$75.00 depending on size and age of seedling, ranging from 3" pots to plants in spike.

DP 4148 *Chesham 'Green Valley' (2n) × Shiraz 'Mary Bea' (4n)*

We have again mated our tetraploid Shiraz with a green. Chesham 'Green Valley' is a clone from a little known cross of Black & Flory. It has rather small ice green flowers of a very pleasing shape and carries about twelve per inflorescence. Here, also, we expect many yellows and greens.

SICILY Baldur · Grand Monarch 'Exquisite'



DP 4149 *Shiraz 'Mary Bea' (4n) × Miretta 'Glendessary' BM/CS (2n)*

We are probably the first to offer any crosses bred with a Shiraz. Shiraz 'Mary Bea' is a tetraploid, bred from Alexanderi 'Westonbirt' and McBeans' tetraploid green Shirley. This combination has produced some greens but mostly chartreuse flowers; here we have used a chartreuse form. Expectancy is not entirely green, for recombination of the hereditary factors may bring to expression the light color of Alexanderi 'Westonbirt'. But greens may be forthcoming in a good portion of the progeny with the green of the Miretta lending emphasis to the green characters of the Shiraz. Too, the fine form of Alexanderi 'Westonbirt' may be expressed in a number of the vigorous triploid offspring.

DP 152 *Blue Smoke 'Beverly Glen' BM/CS (2n) × Plover 'Fuchsia' (2n)*

Here are two plants with tremendous flower production, a highly desirable trait bound to be transmitted to many of their progeny. Plover 'Fuchsia' has proved sensational here, averaging twenty flowers to the spike. The Beverly Glen cultivar of Blue Smoke with its lovely dark lip and long-arching spikes is perhaps the most popular of these fine greens. Shades of green with heavy flower production should ensue, and be of great value alike to the hobbyist and commercial grower.

DP 117 *Lowio-grandiflorum* 'Westonbirt'
FCC/RHS (2n) × *Claudona* 'Glendessary' BM/CS (2n)

Little need be said concerning the pod parent; *Lowio-grandiflorum* 'Westonbirt' is well known for its large green flowers. *Claudona* 'Glendessary' produces marvelous lawn green inflorescences with twenty or more flowers. This is a truly magnificent green.

MIRETTA 'DOS PUEBLOS' *Claudette* 'Invicta' × *Mirabel* FCC/RHS



DP 121 *Shina Black* (2n) × *Miretta* (2n)

Shina Black is perhaps best known as one of the parents of the very popular York. *Miretta*, on the other hand, is bred from the famous *Mirabel* FCC/RHS, now reportedly extinct, and this particular cultivar is notable for its long lip.

DP 159 *Blue Smoke* 'Beverly Glen'
BM/CS (2n) × *Romeo* (2n)

With such a wealth of green heritage behind these two parents it would be improbable that a large proportion of the progeny should not be green. *Romeo* (grandiflorum × Pearl 'Magnificum' FCC/RHS), though not a very large flower, is nevertheless very green. Long, arching spikes of many flowers with fine lips may be expected.

DP 160 *Irina* 'Celeste' (2n) ×
Blue Smoke 'Pernod' (2n)

DP 161 *Irina* 'Celeste' (2n) × *Blue Smoke* 'Distinction' (2n)
It is difficult to imagine anything but a number of fine greens resulting from this hybridization.

We regard both of these cultivars of *Blue Smoke* as having great merit. We do not offer one in preference to the other, for both produce immense

BLUE SMOKE 'GREEN MEADOW' *lowianum* 'Pitts' × *Mirabel* FCC/RHS



arching spikes of vivid green flowers with maroon banded lips. The other parent, *Irina* 'Celeste', also a well shaped green with markings of a rust-red on the lip, is a vigorous grower with 18 or more flowers per spike.

DP 163 *Irina* 'Celeste' (2n) × *Plover* 'Fuchsia' (2n)

Plover 'Fuchsia' is well known in Southern California as one of the most floriferous *Cymbidiums* in cultivation. With one or two flower spikes from every pseudobulb and with each raceme carrying from fifteen to thirty flowers, this clone has proven to be one of the most profitable in our houses. Here we have combined this vigorous grower with the free flowering *Irina* 'Celeste'. Undoubtedly many floriferous greens will result.

CYPRIPEDIUMS, Paphiopedilums or colloquially Cypripediums (both names derived from Greek or Latin roots meaning Venus slipper) are among the most extensively cultured orchids. Indeed, the number of crosses made or attempted within this group surpasses that of any other genus of orchids. Yet, the numbers of individuals raised from these crosses have been in many instances very low. The well known cytological studies of Mehlquist and Duncan & MacLeod within this genus have shown that the reason for this may be traced in part to the great range of chromosome numbers of the species. Secondly, polyploidy is a widespread phenomenon among the hybrids and may cause complicating factors in hybridizing. Finally Cypripediums have been notoriously hard to germinate; this latter problem has been only partially solved so that generally, only comparatively recently have any extensive populations of Cypripedium seedlings been raised.

Our collection, made up of about 20,000 plants, is an accumulation of both seedlings and mature plants obtained from eminent collections in both the New World and Old. Accordingly, our group of Cypripediums now ranks among the foremost collections on this globe, and in it both award plants and potential award plants abound.

We are particularly proud of our fine white assemblage; along with the older well known whites we have a great number of two particularly outstanding white crosses, Lohengrin and Susan Tucker, both derivatives of the triploid F. C. Puddle FCC/RHS with Golden Beauty 'Radiant' and Shalimar respectively. A remarkable number of award quality flowers have been produced here; without a doubt the largest whites in existence today are found in these crosses. Inquiries concerning our Cypripediums are invited.



CHRISTINE 'GOLDEN BEAUTY' aureum \times Christopher



GOLDEN TULCE design: *Anonymous*



HONEY DEW AM-RHS Anisim: *Ed's M. an*



Cypripedium House



SUSAN TUCKER 'TEDDY' Shalimar: *J. C. Padden FCC, RUS*

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Eliot Rogers, Sales Manager

our responsibility ends when the shipment is accepted by the carrier. However, we do guarantee that every plant sold is true to name.

While this catalogue deals primarily with unflowered seedlings, we have large stocks of back bulb propagations and flowered plants for sale. Our stocks are too numerous to list but we shall be glad to make special offerings to would-be purchasers if they will state their wants. We invite correspondence.

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